

CLAIM LISTING

This listing of claims will replace all prior versions, and listings of claims in the application:

IN THE CLAIMS

1. (Previously Presented) An output interface comprising:
an amplifier having an output impedance and an input continuously coupled to receive an input signal, wherein the amplifier sources a transmission line;
a feed-forward circuit in parallel with the amplifier, wherein the feed-forward circuit compensates for transmission characteristics of the transmission line;
a feed-forward control module coupled to the feed-forward circuit to adaptively alter a property of the feed-forward circuit in response to at least one characteristic of the transmission line; and
wherein the feed-forward circuit further comprises a plurality of switched capacitors in parallel with each other, wherein each one of the switched capacitors includes a capacitor in series with a switch and at least one of the plurality of switched capacitors is selectable based on a desired capacitance value to be placed in parallel with the output impedance.
2. (Previously Presented) The output interface as in claim 1, wherein a capacitance value of a capacitor of said plurality of switched capacitors is determined at least in part by a data transition rate.
3. (Previously Presented) The output interface as in claim 1, wherein a capacitance value of a capacitor of said plurality of switched capacitors is determined based at least in part on a characteristic of said transmission line to which said output interface is electrically coupled.
4. (Original) The output interface as in claim 1, wherein said feed-forward circuit further comprises an amplifier in series with a capacitor.
5. (Original) The output interface as in claim 1, wherein said feed-forward circuit further comprises a resistive element in series with a capacitor.

6. - 8. (Cancelled)

9. (Previously Presented) The output interface as in claim 1, wherein the property is one of a capacitance value and a resistance value.

10. (Previously Presented) A device comprising:
a data processing module having an output;
an amplifier having an input continuously coupled to the output of the data processing module, and an output;
a feed-forward circuit having an input coupled to the output of the data processing module and an output coupled to the output of the amplifier;
a feed-forward control module coupled to the feed-forward circuit to adaptively select a capacitance value of the feed-forward circuit based on at least one characteristic of a transmission medium to which the device is electrically coupled; and
wherein said feed-forward circuit further comprises a plurality of switched capacitors in parallel with each other, wherein each one of the switched capacitors includes a capacitor in series with a switch and at least one switched capacitor of the plurality of switched capacitors is selectable based on a desired capacitance value to be placed in parallel with said amplifier.

11. (Previously Presented) The device as in claim 10, wherein a capacitance value of a capacitor of said plurality of switched capacitors is determined at least in part by a data transition rate.

12. (Previously Presented) The device as in claim 10, wherein a capacitance value of a capacitor of said plurality of switched capacitors is determined based at least in part on a characteristic of a transmission medium to which said output interface is electrically coupled.

13. (Previously Presented) The device as in claim 10, wherein said feed-forward circuit further comprises an amplifier in series with a capacitor of said plurality of switched capacitors.

14. (Previously Presented) The device as in claim 10, wherein said feed-forward circuit further comprises a resistive element in series with a capacitor of said plurality of switched capacitors.

15. -17. (Cancelled)

18. (Previously Presented) A device comprising:

- a printed circuit board;

- a first device having an input;

- a second device having an output:

- an amplifier having an input and an output, wherein the input of the amplifier is continuously coupled to an output of the second device and the output of the amplifier is coupled to the input of the first device via the printed circuit board;

- a feed-forward circuit in parallel with the amplifier;

- a feed-forward control module coupled to the feed-forward circuit to adaptively select a capacitance value of the feed-forward circuit in response to at least one characteristic of the printed circuit board to which the first device is electrically coupled; and

- wherein the feed-forward circuit comprises a plurality of switched capacitors in parallel with each other, wherein each one of the switched capacitors includes a capacitor in series with a switch and at least one switched capacitor of the plurality of switched capacitors is selectable based on a desired capacitance value to be placed in parallel with an output impedance of the amplifier.

19. (Previously Presented) The device as in claim 18, wherein a capacitance value of a switched capacitor of the plurality of switched capacitors is determined at least in part by a data transition rate.

20. (Previously Presented) The device as in claim 18, wherein a capacitance value of a switched capacitor of the plurality of switched capacitors is determined based at least in part on a characteristic of the printed circuit board to which the first device is electrically coupled.

21. (Original) The device as in claim 18, wherein said feed-forward circuit further comprises an amplifier in series with a capacitor.

22. (Original) The device as in claim 18, wherein said feed-forward circuit further comprises a resistive element in series with a capacitor.

23. - 29. (Cancelled)